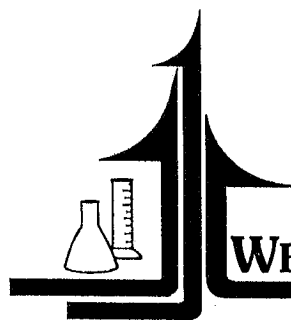
ECOLOGICAL CONSULTING AND
ENVIRONMENTAL LABORATORY SERVICES**WHITE WATER ASSOCIATES, INC.****Cover Page****Client:** OTIE**WWA Job #:** 39625**Project:** Humboldt Mill**Sample Matrix:** Water**Date Received:** 3/22/2012**Date Reported:** 4/11/2012

Sample Number	Client Sample ID	Date Sampled
39625-001	HMDW-001-02A	03/21/12
39625-002	HMDW-004-02A	03/22/12
39625-003	HMDW-005A-02A	03/21/12
39625-004	HMDW-005B-02A	03/21/12
39625-005	HMDW-006-02A	03/22/12
39625-006	HMDW-007-02A	03/22/12
39625-007	HMDW-008-02A	03/22/12
39625-008	HMDW-009-02A	03/22/12
39625-009	HMDW-010-02A	03/21/12
39625-010	HMDW-003-02A	03/22/12
39625-011	HMDW-002-02A	03/21/12
39625-012	HMDW-015-02A	03/22/12



ECOLOGICAL CONSULTING AND
ENVIRONMENTAL LABORATORY SERVICES

WHITE WATER ASSOCIATES, INC.

Cover Page..continued

Client: OTIE

WWA Job #: 39625

Comments (if any):

EPA methods reported are all for drinking water and are equivalent to the SM methods.

Key to Laboratory Flags:

*: RPD exceeds limits.

B: The analyte was found in the associated blank as well as in the sample.

J+: The quantitation is an estimated value because the result exceeds the calibration range

J: The quantitation is an estimated value because the result is less than the sample quantitation limit but greater than the detection limit.

M: A matrix effect was present.

Q: Batch QC data associated with the analysis does not meet the stated objectives

H: Indicates analytical holding time exceedance.

U: The analyte was analyzed for, but not detected.

P: A manual peak selection or manual integration was performed to correct an erroneous software selection.

ND = Not Detected, MDL = Method Detection Limit, MQL = Method Quantitation Limit

ppm = mg/L (liquid) or mg/kg (solid), ppb = ug/L (liquid) or ug/kg (solid)

For coliform, Negative = No coliform bacteria detected, Positive = Coliform bacteria detected

Sample Types:

S = Solids, DW = Drinking water, D = Dissolved, T = Total, TC = TCLP extract, SP = SPLP extract

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without the written approval of this laboratory. The Chain of Custody is attached.

This report satisfies the requirements of your project but has not been prepared to comply with NELAP reporting requirements.

I certify that the data contained in this Final Report has been generated and reviewed in accordance with approved methods and White Water Associates Standard Operating Procedures. Exceptions, if any, are discussed in the accompanying sample narrative. Release of this Final Report is authorized by White Water Associates management, as is verified by the following signature.

Approved By:

WI DNR Lab Certification Number: 999971280

MI DEQ Certification Number: 9306

DoD-ELAP Accreditation Number: 65802

[illegible]

Items/Reason	Relinquished by	Date	Received by	Date	Time	Items/Reason	Relinquished By	Date	Received by	Date	Time
	Ching	3-22-12	Nicole A. King	3/22/12	16:10						

CHAIN OF CUSTODY RECORD

Site Name Humboldt + MU

Contact Name: Caitlin Ruza

**No: AnionHardness-
0020 0005 032212**

Cooler #: 1

Lab: White Water Associates

Lab Phone: 9068227373

Lab #	Sample #	Location	Analyses	Matrix	Collected	Numb Cont	Container	Preservative	MS/MSD
B	HMDW-008-02A	HMDW008	Sodium and Hardness-Commercial Lab	Ground Water	3/22/2012	1	250 mL poly	HNO3 pH<2	N
C	HMDW-008-02A	HMDW008	Nitrate-Commercial Lab	Ground Water	3/22/2012	1	125 mL poly	4 C	N
D	HMDW-008-02A	HMDW008	Nitrite, Chloride, Sulfate-Commercial Lab	Ground Water	3/22/2012	1	250 mL poly	4 C	N
8 A	HMDW-009-02A	HMDW009	Fluoride-Commercial Lab	Ground Water	3/22/2012	1	125 mL poly	4 C	N
B	HMDW-009-02A	HMDW009	Sodium and Hardness-Commercial Lab	Ground Water	3/22/2012	1	250 mL poly	HNO3 pH<2	N
C	HMDW-009-02A	HMDW009	Nitrite, Chloride, Sulfate-Commercial Lab	Ground Water	3/22/2012	1	250 mL poly	4 C	N
D	HMDW-009-02A	HMDW009	Nitrate-Commercial Lab	Ground Water	3/22/2012	1	125 mL poly	4 C	N
9 A	HMDW-010-02A	HMDW010	Fluoride-Commercial Lab	Ground Water	3/21/2012	1	125 mL poly	4 C	N
B	HMDW-010-02A	HMDW010	Sodium and Hardness-Commercial Lab	Ground Water	3/21/2012	1	250 mL poly	HNO3 pH<2	N
C	HMDW-010-02A	HMDW010	Nitrate-Commercial Lab	Ground Water	3/21/2012	1	125 mL poly	4 C	N
D	HMDW-010-02A	HMDW010	Nitrite, Chloride, Sulfate-Commercial Lab	Ground Water	3/21/2012	1	250 mL poly	4 C	N
10 A	HMDW-003-02A	HMDW003	Fluoride-Commercial Lab	Ground Water	3/22/2012	1	125 mL poly	4 C	N

Special Instructions:	SAMPLES TRANSFERRED FROM
	CHAIN OF CUSTODY #

[illegible]

DateShipped: 3/22/2012
CarrierName: Hand Deliver
AirbillNo:

CHAIN OF CUSTODY RECORD

Site Name Humboldt Mts
Contact Name: Caitlin Ruza
Contact Phone: 3122207000 x26

**No: AnionHardness-
0020 0005 032212**

Cooler #: 1

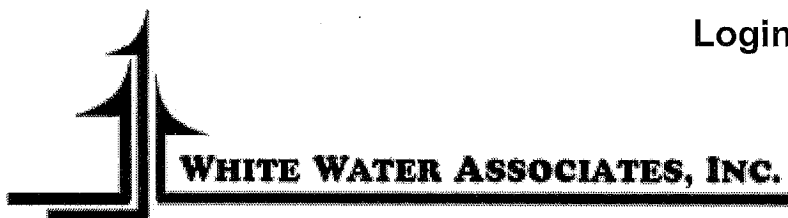
Lab: White Water Associates

Lab Phone: 9068227373

[illegible]

Special Instructions:	SAMPLES TRANSFERRED FROM
	CHAIN OF CUSTODY #

Items/Reason	Relinquished by	Date	Received by	Date	Time
	C. King	3-22-12	Nicole A. Kuyek	3/22/12	16:10



Login Checklist

Project No.: 39625 Date logged in.: 3/22/2012 Login person's initials: GLH
Client: OTIE Number of coolers: 1
Project name: Humboldt Mill Courier/shipper: CLEINT

- ☒ 1. Custody seals/original packing tape were intact.
- ☒ 2. Samples are in good condition, i.e. not broken or leaking.
- ☒ 3. Samples were received within holding times.
- ☒ 4. Samples were received on ice (ice in direct contact with the samples).
- ☒ 5. Temperature of the samples was between 2-6°C. Temp.: 6.0

NOTE: Samples not between 2-6°C that are received at the laboratory on the day of sample collections do not require client notification.

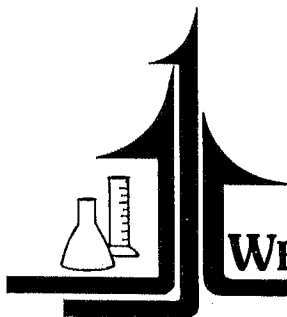
- ☒ 6. Samples matched the Chain of Custody (COC).
- ☒ 7. Proper containers were used.
- ☒ 8. Samples were collected in White Water lab containers.
- ☒ 9. There is adequate sample volume for requested analyses and QC.
- ☐ 10. For water VOC samples, headspace is less than the size of a pea.

See COC 11. Samples are preserved to the proper pH. Sample bottles and preservation are noted on COC.

- ☒ 12. The COC is signed.
- ☒ 13. Sub-sampling is required. (Note bottles created and preserved below.)
- ☐ 14. For Dissolved Analysis, samples were filtered in the lab.
- ☐ 15. For VOCs, encores were received.
- ☐ 16. For Soil VOCs, samples were preserved with methanol in the lab.
- ☐ 17. Client contact is necessary. Provide documentation below.

COMMENTS/CORRECTIVE ACTION

CLIENT RESPONSE



ECOLOGICAL CONSULTING AND
ENVIRONMENTAL LABORATORY SERVICES

WHITE WATER ASSOCIATES, INC.

ANALYTICAL REPORT

Client: OTIE

WWA Job #: 39625

Project: Humboldt Mill

Sample Matrix: Water

Date Received: 3/22/2012

Date Reported: 4/11/2012

Sample Results

Sample No. / ID / Description	Result	Flags	Units	Date	Method	MDL	MQL
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39625-001 / HMDW-001-02A

General Chemistry Parameters

Chloride	3 JM		mg/L	3/26/2012	325.2	3	10
Fluoride	0.049 J		mg/L	4/6/2012	300.0	0.006	0.050
Hardness	110		mg/L	4/4/2012	2340B	0.3	1.3
Nitrate-N	ND		mg/L	3/27/2012	4500F	0.10	0.20
Nitrite-N	ND		mg/L	3/23/2012	353.2	0.01	0.02
Sulfate	8.0		mg/L	3/27/2012	375.4	3.0	6.0

Trace Metals - Dissolved

Sodium (d)	1.3		mg/L	4/4/2012	SM3120B	0.15	0.30
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39625-002 / HMDW-004-02A

General Chemistry Parameters

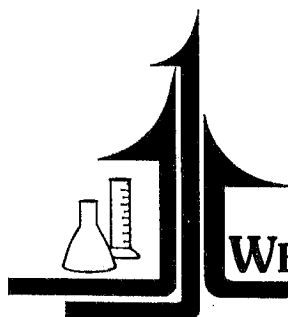
Chloride	4 J		mg/L	3/26/2012	325.2	3	10
Fluoride	0.071		mg/L	4/6/2012	300.0	0.006	0.050
Hardness	51		mg/L	4/4/2012	2340B	0.3	1.3
Nitrate-N	0.36		mg/L	3/27/2012	4500F	0.10	0.20
Nitrite-N	ND		mg/L	3/23/2012	353.2	0.01	0.02
Sulfate	9.9 M		mg/L	3/27/2012	375.4	3.0	6.0

Trace Metals - Dissolved

Sodium (d)	1.8		mg/L	4/4/2012	SM3120B	0.15	0.30
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ND = Not Detected, MDL = Method Detection Limit, MQL = Method Quantitation Limit,
ppm = mg/l (liquid) or mg/kg (solid), ppb = ug/l (liquid) or ug/kg (solid)

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ECOLOGICAL CONSULTING AND
ENVIRONMENTAL LABORATORY SERVICES

WHITE WATER ASSOCIATES, INC.

Client: OTIE

WWA Job #: 39625

Project: Humboldt Mill

Sample Matrix: Water

Date Received: 3/22/2012

Date Reported: 4/11/2012

Sample Results

Sample No. / ID / Description	Result	Flags	Units	Date	Method	MDL	MQL
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39625-003 / HMDW-005A-02A

General Chemistry Parameters

Chloride	4 J		mg/L	3/26/2012	325.2	3	10
Fluoride	ND		mg/L	4/6/2012	300.0	0.006	0.050
Hardness	18		mg/L	4/4/2012	2340B	0.3	1.3
Nitrate-N	ND		mg/L	3/27/2012	4500F	0.10	0.20
Nitrite-N	ND		mg/L	3/23/2012	353.2	0.01	0.02
Sulfate	13		mg/L	3/27/2012	375.4	3.0	6.0

Trace Metals - Dissolved

Sodium (d)	4.0		mg/L	4/4/2012	SM3120B	0.15	0.30
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39625-004 / HMDW-005B-02A

General Chemistry Parameters

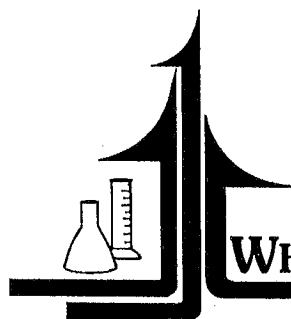
Chloride	4 J		mg/L	3/26/2012	325.2	3	10
Fluoride	0.029 J		mg/L	4/6/2012	300.0	0.006	0.050
Hardness	29		mg/L	4/4/2012	2340B	0.3	1.3
Nitrate-N	ND		mg/L	3/27/2012	4500F	0.10	0.20
Nitrite-N	ND		mg/L	3/23/2012	353.2	0.01	0.02
Sulfate	13		mg/L	3/27/2012	375.4	3.0	6.0

Trace Metals - Dissolved

Sodium (d)	7.9		mg/L	4/4/2012	SM3120B	0.15	0.30
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ND = Not Detected, MDL = Method Detection Limit, MQL = Method Quantitation Limit,
ppm = mg/l (liquid) or mg/kg (solid), ppb = ug/l (liquid) or ug/kg (solid)

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ECOLOGICAL CONSULTING AND
ENVIRONMENTAL LABORATORY SERVICES**WHITE WATER ASSOCIATES, INC.**

Client: OTIE

WWA Job #: 39625

Project: Humboldt Mill

Sample Matrix: Water

Date Received: 3/22/2012

Date Reported: 4/11/2012

Sample Results

Sample No. / ID / Description	Result	Flags	Units	Date	Method	MDL	MQL
39625-005 / HMDW-006-02A							
General Chemistry Parameters							
Chloride	4 J		mg/L	3/26/2012	325.2	3	10
Fluoride	0.051		mg/L	4/6/2012	300.0	0.006	0.050
Hardness	73		mg/L	4/4/2012	2340B	0.3	1.3
Nitrate-N	0.34		mg/L	3/27/2012	4500F	0.10	0.20
Nitrite-N	ND		mg/L	3/23/2012	353.2	0.01	0.02
Sulfate	6.8		mg/L	3/27/2012	375.4	3.0	6.0
Trace Metals - Dissolved							
Sodium (d)	1.8		mg/L	4/4/2012	SM3120B	0.15	0.30

39625-006 / HMDW-007-02A**General Chemistry Parameters**

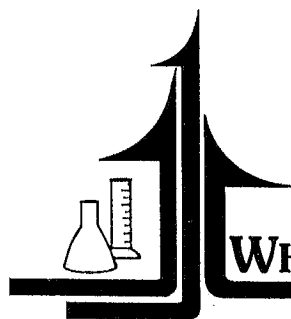
Chloride	6 J		mg/L	3/26/2012	325.2	3	10
Fluoride	0.062		mg/L	4/6/2012	300.0	0.006	0.050
Hardness	89		mg/L	4/4/2012	2340B	0.3	1.3
Nitrate-N	2.3		mg/L	3/27/2012	4500F	0.10	0.20
Nitrite-N	ND		mg/L	3/23/2012	353.2	0.01	0.02
Sulfate	19		mg/L	3/27/2012	375.4	3.0	6.0

Trace Metals - Dissolved

Sodium (d)	1.9		mg/L	4/4/2012	SM3120B	0.15	0.30
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ND = Not Detected, MDL = Method Detection Limit, MQL = Method Quantitation Limit,
ppm = mg/l (liquid) or mg/kg (solid), ppb = ug/l (liquid) or ug/kg (solid)

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ECOLOGICAL CONSULTING AND
ENVIRONMENTAL LABORATORY SERVICES**WHITE WATER ASSOCIATES, INC.**

Client: OTIE

WWA Job #: 39625

Project: Humboldt Mill

Sample Matrix: Water

Date Received: 3/22/2012

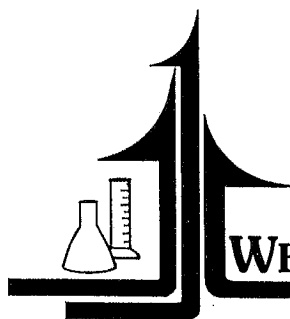
Date Reported: 4/11/2012

Sample Results

Sample No. / ID / Description	Result	Flags	Units	Date	Method	MDL	MQL
39625-007 / HMDW-008-02A							
General Chemistry Parameters							
Chloride	26		mg/L	3/26/2012	325.2	3	10
Fluoride	0.034 J		mg/L	4/6/2012	300.0	0.006	0.050
Hardness	110		mg/L	4/4/2012	2340B	0.3	1.3
Nitrate-N	8.5		mg/L	3/27/2012	4500F	0.10	0.20
Nitrite-N	ND		mg/L	3/23/2012	353.2	0.01	0.02
Sulfate	11		mg/L	3/27/2012	375.4	3.0	6.0
Trace Metals - Dissolved							
Sodium (d)	10		mg/L	4/4/2012	SM3120B	0.15	0.30
39625-008 / HMDW-009-02A							
General Chemistry Parameters							
Chloride	17		mg/L	3/26/2012	325.2	3	10
Fluoride	0.058		mg/L	4/6/2012	300.0	0.006	0.050
Hardness	170		mg/L	4/4/2012	2340B	0.3	1.3
Nitrate-N	8.2		mg/L	3/27/2012	4500F	0.10	0.20
Nitrite-N	ND		mg/L	3/23/2012	353.2	0.01	0.02
Sulfate	47		mg/L	3/27/2012	375.4	6.0	12
Trace Metals - Dissolved							
Sodium (d)	7.8		mg/L	4/4/2012	SM3120B	0.15	0.30

ND = Not Detected, MDL = Method Detection Limit, MQL = Method Quantitation Limit,
ppm = mg/l (liquid) or mg/kg (solid), ppb = ug/l (liquid) or ug/kg (solid)

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ECOLOGICAL CONSULTING AND
ENVIRONMENTAL LABORATORY SERVICES**WHITE WATER ASSOCIATES, INC.**

Client: OTIE

WWA Job #: 39625

Project: Humboldt Mill

Sample Matrix: Water

Date Received: 3/22/2012

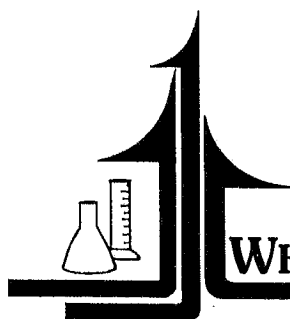
Date Reported: 4/11/2012

Sample Results

Sample No. / ID / Description	Result	Flags	Units	Date	Method	MDL	MQL
39625-009 / HMDW-010-02A							
General Chemistry Parameters							
Chloride	6 J		mg/L	3/26/2012	325.2	3	10
Fluoride	0.048 J		mg/L	4/6/2012	300.0	0.006	0.050
Hardness	43		mg/L	4/4/2012	2340B	0.3	1.3
Nitrate-N	ND		mg/L	3/27/2012	4500F	0.10	0.20
Nitrite-N	ND		mg/L	3/23/2012	353.2	0.01	0.02
Sulfate	19		mg/L	3/27/2012	375.4	3.0	6.0
Trace Metals - Dissolved							
Sodium (d)	1.1		mg/L	4/4/2012	SM3120B	0.15	0.30
39625-010 / HMDW-003-02A							
General Chemistry Parameters							
Chloride	4 J		mg/L	3/26/2012	325.2	3	10
Fluoride	0.0095 J		mg/L	4/6/2012	300.0	0.006	0.050
Hardness	16		mg/L	4/4/2012	2340B	0.3	1.3
Nitrate-N	1.0		mg/L	3/27/2012	4500F	0.10	0.20
Nitrite-N	ND		mg/L	3/23/2012	353.2	0.01	0.02
Sulfate	5.3 J		mg/L	3/27/2012	375.4	3.0	6.0
Trace Metals - Total							
Sodium (t)	1.2		mg/L	4/4/2012	SM3120B	0.15	0.30

ND = Not Detected, MDL = Method Detection Limit, MQL = Method Quantitation Limit,
ppm = mg/l (liquid) or mg/kg (solid), ppb = ug/l (liquid) or ug/kg (solid)

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ECOLOGICAL CONSULTING AND
ENVIRONMENTAL LABORATORY SERVICES**WHITE WATER ASSOCIATES, INC.**

Client: OTIE

WWA Job #: 39625

Project: Humboldt Mill

Sample Matrix: Water

Date Received: 3/22/2012

Date Reported: 4/11/2012

Sample Results

Sample No. / ID / Description	Result	Flags	Units	Date	Method	MDL	MQL
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39625-011 / HMDW-002-02A**General Chemistry Parameters**

Chloride	220		mg/L	3/26/2012	325.2	6	20
Fluoride	ND		mg/L	4/6/2012	300.0	0.006	0.050
Hardness	270		mg/L	4/4/2012	2340B	0.3	1.3
Nitrate-N	ND		mg/L	3/27/2012	4500F	0.10	0.20
Nitrite-N	0.01 J		mg/L	3/23/2012	353.2	0.01	0.02
Sulfate	34		mg/L	3/27/2012	375.4	6.0	12

Trace Metals - Dissolved

Sodium (d)	63		mg/L	4/4/2012	SM3120B	0.15	0.30
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39625-012 / HMDW-015-02A**General Chemistry Parameters**

Chloride	4 J		mg/L	3/26/2012	325.2	3	10
Fluoride	0.078		mg/L	4/6/2012	300.0	0.006	0.050
Hardness	50		mg/L	4/4/2012	2340B	0.3	1.3
Nitrate-N	0.26		mg/L	3/27/2012	4500F	0.10	0.20
Nitrite-N	ND		mg/L	3/23/2012	353.2	0.01	0.02
Sulfate	10		mg/L	3/27/2012	375.4	3.0	6.0

Trace Metals - Dissolved

Sodium (d)	1.9		mg/L	4/4/2012	SM3120B	0.15	0.30
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EPA methods reported are all for drinking water and are equivalent to the SM methods.

ND = Not Detected, MDL = Method Detection Limit, MQL = Method Quantitation Limit,
ppm = mg/l (liquid) or mg/kg (solid), ppb = ug/l (liquid) or ug/kg (solid)

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ANALYTICAL REPORT



ECOLOGICAL CONSULTING AND
ENVIRONMENTAL LABORATORY SERVICES

WHITE WATER ASSOCIATES, INC.

PREPARATION BLANK SUMMARY

Client: OTIE

Project: Humboldt Mill

WWA Job No.: 39625

Sample ID	Analyte	Result	Flags	Acceptance Limit	MDL	EQL	Analysis Date	Analysis Time	Run
MB 120402 TOT			WATER			mg/L			
	Sodium	ND	U	<0.150	0.150	0.300	4/4/2012	14:10	04-04-12 glhIEC
MB 120404 DISS			DRINKING WATER			mg/L			
	Sodium	ND	U	<0.150	0.150	0.300	4/4/2012	15:47	04-04-12 glhIEC
MB120326-1			WATER			mg/L			
	Chloride	ND	U	<5	3	10	3/26/2012	13:14	20120326001CL#1
MB120323-1			WATER			mg/L			
	Nitrite-N	ND	U	<0.01	0.01	0.02	3/23/2012	09:14	20120323001NO2
MB120327-2			WATER			mg/L			
	Nitrate-N	ND	U	<0.10	0.10	0.20	3/27/2012	15:55	20120327004NO3
	Sulfate	ND	U	<3.00	3.00	6.00	3/27/2012	11:19	20120327002SO4#

ANALYTICAL REPORT



ECOLOGICAL CONSULTING AND
ENVIRONMENTAL LABORATORY SERVICES

WHITE WATER ASSOCIATES, INC.

MATRIX SPIKE SUMMARY

Client: OTIE Project: Humboldt Mill WWA Job No.: 39625

Matrix: WATER Sample ID: 39625-001 Client ID: HMDW-001-02AS

Percent Solids for Sample: 0.00 Spiked ID: 39625-001S Percent Solids for Spike Sample: 0.00

Analyte	Type	Units	Acceptance Limit %R	Spiked Result	Sample Result	Spike Added	% Recovery	Qual
Chloride	T	mg/L	91 - 108	91.2698	3.2449	80	110	M
Nitrite-N	T	mg/L	90 - 110	0.8318	ND	0.8	104	

ANALYTICAL REPORT



ECOLOGICAL CONSULTING AND
ENVIRONMENTAL LABORATORY SERVICES

WHITE WATER ASSOCIATES, INC.

MATRIX SPIKE DUPLICATE SUMMARY

Client: OTIE Project: Humboldt Mill WWA Job No.: 39625

Matrix: WATER Sample ID: 39625-001 Client ID: HMDW-001-02ASD

Percent Solids for Sample: 0.00 Spiked ID: 39625-001SD Percent Solids for Spike Sample: 0.00

Analyte	Type	Units	Acceptance Limit %R	MSD Result	Sample Result	Spike Added	% Recovery	Qual
Chloride	T	mg/L	91 - 108	89.3144	3.2449	80	108	
Nitrite-N	T	mg/L	90 - 110	0.8327	ND	0.8	104	

ANALYTICAL REPORT



ECOLOGICAL CONSULTING AND
ENVIRONMENTAL LABORATORY SERVICES

WHITE WATER ASSOCIATES, INC.

MATRIX SPIKE SUMMARY

Client: OTIE Project: Humboldt Mill WWA Job No.: 39625

Matrix: WATER Sample ID: 39625-002 Client ID: HMDW-004-02AS

Percent Solids for Sample: 0.00 Spiked ID: 39625-002S Percent Solids for Spike Sample: 0.00

Analyte	Type	Units	Acceptance Limit %R	Spiked Result	Sample Result	Spike Added	% Recovery	Qual
Sulfate	T	mg/L	90 - 110	32.8085	9.8582	20	115	M

ANALYTICAL REPORT



ECOLOGICAL CONSULTING AND
ENVIRONMENTAL LABORATORY SERVICES

WHITE WATER ASSOCIATES, INC.

MATRIX SPIKE DUPLICATE SUMMARY

Client: OTIE Project: Humboldt Mill WWA Job No.: 39625

Matrix: WATER Sample ID: 39625-002 Client ID: HMDW-004-02ASD

Percent Solids for Sample: 0.00 Spiked ID: 39625-002SD Percent Solids for Spike Sample: 0.00

Analyte	Type	Units	Acceptance Limit %R	MSD Result	Sample Result	Spike Added	% Recovery	Qual
Sulfate	T	mg/L	90 - 110	33.0648	9.8582	20	116	M

ANALYTICAL REPORT



ECOLOGICAL CONSULTING AND
ENVIRONMENTAL LABORATORY SERVICES

WHITE WATER ASSOCIATES, INC.

MATRIX SPIKE SUMMARY

Client: OTIE Project: Humboldt Mill WWA Job No.: 39625

Matrix: WATER Sample ID: 39625-010 Client ID: HMDW-003-02AS

Percent Solids for Sample: 0.00 Spiked ID: 39625-010S Percent Solids for Spike Sample: 0.00

Analyte	Type	Units	Acceptance Limit %R	Spiked Result	Sample Result	Spike Added	% Recovery	Qual
Nitrate-N	T	mg/L	90 - 110	8.8950	1.0274	8	98	

ANALYTICAL REPORT



ECOLOGICAL CONSULTING AND
ENVIRONMENTAL LABORATORY SERVICES

WHITE WATER ASSOCIATES, INC.

MATRIX SPIKE DUPLICATE SUMMARY

Client: OTIE Project: Humboldt Mill WWA Job No.: 39625

Matrix: WATER Sample ID: 39625-010 Client ID: HMDW-003-02ASD

Percent Solids for Sample: 0.00 Spiked ID: 39625-010SD Percent Solids for Spike Sample: 0.00

Analyte	Type	Units	Acceptance Limit %R	MSD Result	Sample Result	Spike Added	% Recovery	Qual
Nitrate-N	T	mg/L	90 - 110	8.8505	1.0274	8	98	

ANALYTICAL REPORT



ECOLOGICAL CONSULTING AND
ENVIRONMENTAL LABORATORY SERVICES

WHITE WATER ASSOCIATES, INC.

MATRIX SPIKE SUMMARY

Client: OTIE Project: Humboldt Mill WWA Job No.: 39625

Matrix: WATER Sample ID: 39625-012 Client ID: HMDW-015-02AS

Percent Solids for Sample: 0.00 Spiked ID: 39625-012S Percent Solids for Spike Sample: 0.00

Analyte	Type	Units	Acceptance Limit %R	Spiked Result	Sample Result	Spike Added	% Recovery	Qual
Sodium	D	mg/L	81 - 121	23.0523	1.8598	20	106	

ANALYTICAL REPORT



ECOLOGICAL CONSULTING AND
ENVIRONMENTAL LABORATORY SERVICES

WHITE WATER ASSOCIATES, INC.

MATRIX SPIKE DUPLICATE SUMMARY

Client: OTIE Project: Humboldt Mill WWA Job No.: 39625

Matrix: WATER Sample ID: 39625-012 Client ID: HMDW-015-02ASD

Percent Solids for Sample: 0.00 Spiked ID: 39625-012SD Percent Solids for Spike Sample: 0.00

Analyte	Type	Units	Acceptance Limit %R	MSD Result	Sample Result	Spike Added	% Recovery	Qual
Sodium	D	mg/L	81 - 121	22.3598	1.8598	20	103	

ANALYTICAL REPORT



ECOLOGICAL CONSULTING AND
ENVIRONMENTAL LABORATORY SERVICES

WHITE WATER ASSOCIATES, INC.

DUPLICATE SAMPLE SUMMARY

Client: OTIE Project: Humboldt Mill WWA Job No.: 39625
Matrix: WATER Sample ID: 39625-001 Client ID: HMDW-001-02AD
Percent Solids for Sample: 0.00 Duplicate ID: 39625-001D Percent Solids for Duplicate: 0.00

Analyte	Type	Units	Acceptance Limit	Sample Result	Duplicate Result	RPD	Qual
Sulfate	T	mg/L	0 - 20	8.0485	8.1771	2	
Nitrate-N	T	mg/L	0 - 20	ND	ND		

ANALYTICAL REPORT



ECOLOGICAL CONSULTING AND
ENVIRONMENTAL LABORATORY SERVICES

WHITE WATER ASSOCIATES, INC.

DUPLICATE SAMPLE SUMMARY

Client: OTIE Project: Humboldt Mill WWA Job No.: 39625
Matrix: WATER Sample ID: 39625-001S Client ID: HMDW-001-02ASD
Percent Solids for Sample: 0.00 Duplicate ID: 39625-001SD Percent Solids for Duplicate: 0.00

Analyte	Type	Units	Acceptance Limit	Sample Result	Duplicate Result	RPD	Qual
Chloride	T	mg/L	0 - 20	91.2698	89.3144	2	
Nitrite-N	T	mg/L	0 - 20	0.8318	0.8327	0	

ANALYTICAL REPORT



ECOLOGICAL CONSULTING AND
ENVIRONMENTAL LABORATORY SERVICES

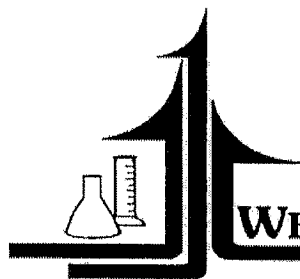
WHITE WATER ASSOCIATES, INC.

DUPLICATE SAMPLE SUMMARY

Client: OTIE Project: Humboldt Mill WWA Job No.: 39625
Matrix: WATER Sample ID: 39625-010S Client ID: HMDW-003-02ASD
Percent Solids for Sample: 0.00 Duplicate ID: 39625-010SD Percent Solids for Duplicate: 0.00

Analyte	Type	Units	Acceptance Limit	Sample Result	Duplicate Result	RPD	Qual
Nitrate-N	T	mg/L	0 - 20	8.8950	8.8505	1	

ANALYTICAL REPORT



ECOLOGICAL CONSULTING AND
ENVIRONMENTAL LABORATORY SERVICES

WHITE WATER ASSOCIATES, INC.

DUPLICATE SAMPLE SUMMARY

Client: OTIE Project: Humboldt Mill WWA Job No.: 39625
Matrix: WATER Sample ID: 39625-002 Client ID: HMDW-004-02AD
Percent Solids for Sample: 0.00 Duplicate ID: 39625-002D Percent Solids for Duplicate: 0.00

Analyte	Type	Units	Acceptance Limit	Sample Result	Duplicate Result	RPD	Qual
Nitrite-N	T	mg/L	0 - 20	ND	ND		

ANALYTICAL REPORT



ECOLOGICAL CONSULTING AND
ENVIRONMENTAL LABORATORY SERVICES

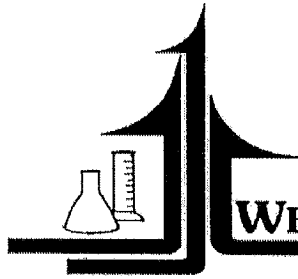
WHITE WATER ASSOCIATES, INC.

DUPLICATE SAMPLE SUMMARY

Client: OTIE Project: Humboldt Mill WWA Job No.: 39625
Matrix: WATER Sample ID: 39625-002S Client ID: HMDW-004-02ASD
Percent Solids for Sample: 0.00 Duplicate ID: 39625-002SD Percent Solids for Duplicate: 0.00

Analyte	Type	Units	Acceptance Limit	Sample Result	Duplicate Result	RPD	Qual
Sulfate	T	mg/L	0 - 20	32.8085	33.0648	1	

ANALYTICAL REPORT



ECOLOGICAL CONSULTING AND
ENVIRONMENTAL LABORATORY SERVICES

WHITE WATER ASSOCIATES, INC.

DUPLICATE SAMPLE SUMMARY

Client: OTIE Project: Humboldt Mill WWA Job No.: 39625
Matrix: WATER Sample ID: 39625-012S Client ID: HMDW-015-02ASD
Percent Solids for Sample: 0.00 Duplicate ID: 39625-012SD Percent Solids for Duplicate: 0.00

Analyte	Type	Units	Acceptance Limit	Sample Result	Duplicate Result	RPD	Qual
Sodium	D	mg/L	0 - 25	23.0523	22.3598	3	

ANALYTICAL REPORT



ECOLOGICAL CONSULTING AND
ENVIRONMENTAL LABORATORY SERVICES

WHITE WATER ASSOCIATES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Client: OTIE

Project: Humboldt Mill

WWA Job No.: 39625

Aqueous LCS Source: Inorganic Ventures

Solid LCS Source:

Sample ID	Analyte	Type	Units	True Value	Result	% Recovery	Acceptance Limits
LCS 120402 TOT			4/4/2012	14:15:47			
	Sodium	T	mg/L	20	20.3510	102	81 - 121

ANALYTICAL REPORT



ECOLOGICAL CONSULTING AND
ENVIRONMENTAL LABORATORY SERVICES

WHITE WATER ASSOCIATES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Client: OTIE

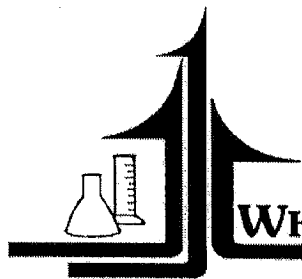
Project: Humboldt Mill

WWA Job No.: 39625

Aqueous LCS Source: Inorganic Ventures

Solid LCS Source:

Sample ID	Analyte	Type	Units	True Value	Result	% Recovery	Acceptance Limits
LCS 120404 DISS			4/4/2012	15:52:51			
	Sodium	DW	mg/L	20	18.9306	95	81 - 121



ANALYTICAL REPORT

ECOLOGICAL CONSULTING AND
ENVIRONMENTAL LABORATORY SERVICES

WHITE WATER ASSOCIATES, INC.

LABORATORY CONTROL SAMPLE SUMMARY

Client: OTIE

Project: Humboldt Mill

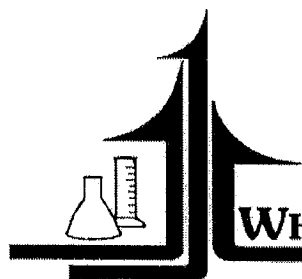
WWA Job No.: 39625

Aqueous LCS Source:

Solid LCS Source:

Sample ID	Analyte	Type	Units	True Value	Result	% Recovery	Acceptance Limits
LCS120323-1			3/23/2012 09:15:37				
	Nitrite-N	T	mg/L	0.8	0.8031	100	90 - 110

ANALYTICAL REPORT



ECOLOGICAL CONSULTING AND
ENVIRONMENTAL LABORATORY SERVICES

WHITE WATER ASSOCIATES, INC.

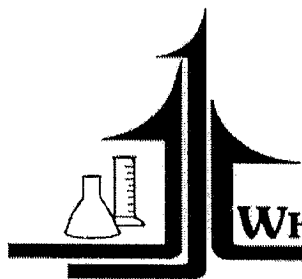
LABORATORY CONTROL SAMPLE SUMMARY

Client: OTIE Project: Humboldt Mill WWA Job No.: 39625

Aqueous LCS Source:

Solid LCS Source:

Sample ID	Analyte	Type	Units	True Value	Result	% Recovery	Acceptance Limits
LCS120326-1			3/26/2012	13:14:37			
	Chloride	T	mg/L	80	82.3950	103	91 - 108



ECOLOGICAL CONSULTING AND
ENVIRONMENTAL LABORATORY SERVICES

WHITE WATER ASSOCIATES, INC.

ANALYTICAL REPORT

LABORATORY CONTROL SAMPLE SUMMARY

Client: OTIE

Project: Humboldt Mill

WWA Job No.: 39625

Aqueous LCS Source:

Solid LCS Source:

Sample ID	Analyte	Type	Units	True Value	Result	% Recovery	Acceptance Limits
LCS120327-2			3/27/2012	15:56:53			
	Nitrate-N	T	mg/L	8	7.8058	98	90 - 110
	Sulfate	T	mg/L	16	16.2197	101	90 - 110

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-17711-1

Client Project/Site: White Water Associates

For:

White Water Associates

429 River Lane

PO BOX 27

Amasa, Michigan 49903

Attn: Dr. Bette J Premo



Authorized for release by:

4/8/2012 7:21:24 PM

Sally Hoffman

Project Manager II

sally.hoffman@testamericainc.com

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: White Water Associates
Project/Site: White Water Associates

TestAmerica Job ID: 480-17711-1

Qualifiers

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☆	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: White Water Associates
Project/Site: White Water Associates

TestAmerica Job ID: 480-17711-1

Job ID: 480-17711-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-17711-1

Receipt

All samples were received in good condition within temperature requirements.

HPLC

No analytical or quality issues were noted.



Detection Summary

Client: White Water Associates
Project/Site: White Water Associates

TestAmerica Job ID: 480-17711-1

Client Sample ID: 39625-1

Lab Sample ID: 480-17711-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.049	J	0.050	0.0060	mg/L	1		300.0	Total/NA

Client Sample ID: 39625-2

Lab Sample ID: 480-17711-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.071		0.050	0.0060	mg/L	1		300.0	Total/NA

Client Sample ID: 39625-3

Lab Sample ID: 480-17711-3

No Detections

Client Sample ID: 39625-4

Lab Sample ID: 480-17711-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.029	J	0.050	0.0060	mg/L	1		300.0	Total/NA

Client Sample ID: 39625-5

Lab Sample ID: 480-17711-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.051		0.050	0.0060	mg/L	1		300.0	Total/NA

Client Sample ID: 39625-6

Lab Sample ID: 480-17711-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.062		0.050	0.0060	mg/L	1		300.0	Total/NA

Client Sample ID: 39625-7

Lab Sample ID: 480-17711-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.034	J	0.050	0.0060	mg/L	1		300.0	Total/NA

Client Sample ID: 39625-8

Lab Sample ID: 480-17711-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.058		0.050	0.0060	mg/L	1		300.0	Total/NA

Client Sample ID: 39625-9

Lab Sample ID: 480-17711-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.048	J	0.050	0.0060	mg/L	1		300.0	Total/NA

Client Sample ID: 39625-10

Lab Sample ID: 480-17711-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.0095	J	0.050	0.0060	mg/L	1		300.0	Total/NA

Client Sample ID: 39625-11

Lab Sample ID: 480-17711-11

No Detections

Client Sample ID: 39625-12

Lab Sample ID: 480-17711-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.078		0.050	0.0060	mg/L	1		300.0	Total/NA

Client Sample Results

Client: White Water Associates
Project/Site: White Water Associates

TestAmerica Job ID: 480-17711-1

Client Sample ID: 39625-1

Lab Sample ID: 480-17711-1

Date Collected: 03/21/12 00:00

Matrix: Water

Date Received: 03/27/12 10:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.049	J	0.050	0.0060	mg/L			04/06/12 08:49	1

Client Sample ID: 39625-2

Lab Sample ID: 480-17711-2

Date Collected: 03/22/12 00:00

Matrix: Water

Date Received: 03/27/12 10:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.071		0.050	0.0060	mg/L			04/06/12 08:59	1

Client Sample ID: 39625-3

Lab Sample ID: 480-17711-3

Date Collected: 03/21/12 00:00

Matrix: Water

Date Received: 03/27/12 10:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.0060		0.050	0.0060	mg/L			04/06/12 09:09	1

Client Sample ID: 39625-4

Lab Sample ID: 480-17711-4

Date Collected: 03/21/12 00:00

Matrix: Water

Date Received: 03/27/12 10:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.029	J	0.050	0.0060	mg/L			04/06/12 09:19	1

Client Sample ID: 39625-5

Lab Sample ID: 480-17711-5

Date Collected: 03/22/12 00:00

Matrix: Water

Date Received: 03/27/12 10:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.051		0.050	0.0060	mg/L			04/06/12 10:14	1

Client Sample ID: 39625-6

Lab Sample ID: 480-17711-6

Date Collected: 03/22/12 00:00

Matrix: Water

Date Received: 03/27/12 10:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.062		0.050	0.0060	mg/L			04/06/12 11:25	1

Client Sample ID: 39625-7

Lab Sample ID: 480-17711-7

Date Collected: 03/22/12 00:00

Matrix: Water

Date Received: 03/27/12 10:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.034	J	0.050	0.0060	mg/L			04/06/12 11:35	1

Client Sample Results

Client: White Water Associates
Project/Site: White Water Associates

TestAmerica Job ID: 480-17711-1

Client Sample ID: 39625-8

Lab Sample ID: 480-17711-8

Date Collected: 03/22/12 00:00

Matrix: Water

Date Received: 03/27/12 10:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.058		0.050	0.0060	mg/L			04/06/12 11:45	1

Client Sample ID: 39625-9

Lab Sample ID: 480-17711-9

Date Collected: 03/21/12 00:00

Matrix: Water

Date Received: 03/27/12 10:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.048	J	0.050	0.0060	mg/L			04/06/12 11:56	1

Client Sample ID: 39625-10

Lab Sample ID: 480-17711-10

Date Collected: 03/22/12 00:00

Matrix: Water

Date Received: 03/27/12 10:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.0095	J	0.050	0.0060	mg/L			04/06/12 12:06	1

Client Sample ID: 39625-11

Lab Sample ID: 480-17711-11

Date Collected: 03/21/12 00:00

Matrix: Water

Date Received: 03/27/12 10:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.0060		0.050	0.0060	mg/L			04/06/12 12:16	1

Client Sample ID: 39625-12

Lab Sample ID: 480-17711-12

Date Collected: 03/22/12 00:00

Matrix: Water

Date Received: 03/27/12 10:00

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.078		0.050	0.0060	mg/L			04/06/12 12:26	1

QC Sample Results

Client: White Water Associates
Project/Site: White Water Associates

TestAmerica Job ID: 480-17711-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 480-57089/100

Matrix: Water

Analysis Batch: 57089

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.0060		0.050	0.0060	mg/L			03/29/12 17:06	1

Lab Sample ID: LCS 480-57089/99

Matrix: Water

Analysis Batch: 57089

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	2.00	1.77	*	mg/L		89	90 - 110

Lab Sample ID: 480-17711-7 MS

Matrix: Water

Analysis Batch: 57089

Client Sample ID: 39625-7

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	<0.030		12.5	12.25		mg/L		98	80 - 120

Lab Sample ID: MB 480-58287/52

Matrix: Water

Analysis Batch: 58287

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.0060		0.050	0.0060	mg/L			04/06/12 05:10	1

Lab Sample ID: LCS 480-58287/51

Matrix: Water

Analysis Batch: 58287

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	2.00	2.00		mg/L		100	90 - 110

Lab Sample ID: 480-17711-5 MS

Matrix: Water

Analysis Batch: 58287

Client Sample ID: 39625-5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.051		2.50	2.58		mg/L		101	80 - 120

Lab Sample ID: 480-17711-5 MSD

Matrix: Water

Analysis Batch: 58287

Client Sample ID: 39625-5

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD Limit
Fluoride	0.051		2.50	2.58		mg/L		101	80 - 120	0 20

Lab Sample ID: MB 480-58289/76

Matrix: Water

Analysis Batch: 58289

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	<0.0060		0.050	0.0060	mg/L			04/06/12 11:15	1

QC Sample Results

Client: White Water Associates
Project/Site: White Water Associates

TestAmerica Job ID: 480-17711-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 480-58289/75

Matrix: Water

Analysis Batch: 58289

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	2.00	2.07		mg/L		104	90 - 110

Lab Sample ID: 480-17711-12 MS

Matrix: Water

Analysis Batch: 58289

Client Sample ID: 39625-12

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.078		2.50	2.64		mg/L		102	80 - 120

QC Association Summary

Client: White Water Associates
Project/Site: White Water Associates

TestAmerica Job ID: 480-17711-1

General Chemistry

Analysis Batch: 57089

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-17711-7 MS	39625-7	Total/NA	Water	300.0	
LCS 480-57089/99	Lab Control Sample	Total/NA	Water	300.0	
MB 480-57089/100	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 58287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-17711-1	39625-1	Total/NA	Water	300.0	
480-17711-2	39625-2	Total/NA	Water	300.0	
480-17711-3	39625-3	Total/NA	Water	300.0	
480-17711-4	39625-4	Total/NA	Water	300.0	
480-17711-5	39625-5	Total/NA	Water	300.0	
480-17711-5 MS	39625-5	Total/NA	Water	300.0	
480-17711-5 MSD	39625-5	Total/NA	Water	300.0	
LCS 480-58287/51	Lab Control Sample	Total/NA	Water	300.0	
MB 480-58287/52	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 58289

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-17711-6	39625-6	Total/NA	Water	300.0	
480-17711-7	39625-7	Total/NA	Water	300.0	
480-17711-8	39625-8	Total/NA	Water	300.0	
480-17711-9	39625-9	Total/NA	Water	300.0	
480-17711-10	39625-10	Total/NA	Water	300.0	
480-17711-11	39625-11	Total/NA	Water	300.0	
480-17711-12	39625-12	Total/NA	Water	300.0	
480-17711-12 MS	39625-12	Total/NA	Water	300.0	
LCS 480-58289/75	Lab Control Sample	Total/NA	Water	300.0	
MB 480-58289/76	Method Blank	Total/NA	Water	300.0	

Lab Chronicle

Client: White Water Associates
Project/Site: White Water Associates

TestAmerica Job ID: 480-17711-1

Client Sample ID: 39625-1

Date Collected: 03/21/12 00:00

Date Received: 03/27/12 10:00

Lab Sample ID: 480-17711-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	58287	04/06/12 08:49	KAC	TAL BUF

Client Sample ID: 39625-2

Date Collected: 03/22/12 00:00

Date Received: 03/27/12 10:00

Lab Sample ID: 480-17711-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	58287	04/06/12 08:59	KAC	TAL BUF

Client Sample ID: 39625-3

Date Collected: 03/21/12 00:00

Date Received: 03/27/12 10:00

Lab Sample ID: 480-17711-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	58287	04/06/12 09:09	KAC	TAL BUF

Client Sample ID: 39625-4

Date Collected: 03/21/12 00:00

Date Received: 03/27/12 10:00

Lab Sample ID: 480-17711-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	58287	04/06/12 09:19	KAC	TAL BUF

Client Sample ID: 39625-5

Date Collected: 03/22/12 00:00

Date Received: 03/27/12 10:00

Lab Sample ID: 480-17711-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	58287	04/06/12 10:14	KAC	TAL BUF

Client Sample ID: 39625-6

Date Collected: 03/22/12 00:00

Date Received: 03/27/12 10:00

Lab Sample ID: 480-17711-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	58289	04/06/12 11:25	KAC	TAL BUF

Client Sample ID: 39625-7

Date Collected: 03/22/12 00:00

Date Received: 03/27/12 10:00

Lab Sample ID: 480-17711-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	58289	04/06/12 11:35	KAC	TAL BUF

Lab Chronicle

Client: White Water Associates
Project/Site: White Water Associates

TestAmerica Job ID: 480-17711-1

Client Sample ID: 39625-8

Date Collected: 03/22/12 00:00

Date Received: 03/27/12 10:00

Lab Sample ID: 480-17711-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	58289	04/06/12 11:45	KAC	TAL BUF

Client Sample ID: 39625-9

Date Collected: 03/21/12 00:00

Date Received: 03/27/12 10:00

Lab Sample ID: 480-17711-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	58289	04/06/12 11:56	KAC	TAL BUF

Client Sample ID: 39625-10

Date Collected: 03/22/12 00:00

Date Received: 03/27/12 10:00

Lab Sample ID: 480-17711-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	58289	04/06/12 12:06	KAC	TAL BUF

Client Sample ID: 39625-11

Date Collected: 03/21/12 00:00

Date Received: 03/27/12 10:00

Lab Sample ID: 480-17711-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	58289	04/06/12 12:16	KAC	TAL BUF

Client Sample ID: 39625-12

Date Collected: 03/22/12 00:00

Date Received: 03/27/12 10:00

Lab Sample ID: 480-17711-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		1	58289	04/06/12 12:26	KAC	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Certification Summary

Client: White Water Associates
Project/Site: White Water Associates

TestAmerica Job ID: 480-17711-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	NELAC	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAC	4	E87672
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	N/A
TestAmerica Buffalo	Illinois	NELAC	5	100325 / 200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAC	7	E-10187
TestAmerica Buffalo	Kentucky	State Program	4	90029
TestAmerica Buffalo	Kentucky (UST)	State Program	4	30
TestAmerica Buffalo	Louisiana	NELAC	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY0044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAC	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAC	1	2337
TestAmerica Buffalo	New Hampshire	NELAC	1	68-00281
TestAmerica Buffalo	New Jersey	NELAC	2	NY455
TestAmerica Buffalo	New York	NELAC	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAC	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAC	3	68-00281
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAC	6	T104704412-08-TX
TestAmerica Buffalo	USDA	Federal		P330-08-00242
TestAmerica Buffalo	Virginia	NELAC Secondary AB	3	460185
TestAmerica Buffalo	Virginia	State Program	3	278
TestAmerica Buffalo	Washington	State Program	10	C1677
TestAmerica Buffalo	West Virginia DEP	State Program	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method Summary

Client: White Water Associates
Project/Site: White Water Associates

TestAmerica Job ID: 480-17711-1

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	TAL BUF

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: White Water Associates
Project/Site: White Water Associates

TestAmerica Job ID: 480-17711-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-17711-1	39625-1	Water	03/21/12 00:00	03/27/12 10:00
480-17711-2	39625-2	Water	03/22/12 00:00	03/27/12 10:00
480-17711-3	39625-3	Water	03/21/12 00:00	03/27/12 10:00
480-17711-4	39625-4	Water	03/21/12 00:00	03/27/12 10:00
480-17711-5	39625-5	Water	03/22/12 00:00	03/27/12 10:00
480-17711-6	39625-6	Water	03/22/12 00:00	03/27/12 10:00
480-17711-7	39625-7	Water	03/22/12 00:00	03/27/12 10:00
480-17711-8	39625-8	Water	03/22/12 00:00	03/27/12 10:00
480-17711-9	39625-9	Water	03/21/12 00:00	03/27/12 10:00
480-17711-10	39625-10	Water	03/22/12 00:00	03/27/12 10:00
480-17711-11	39625-11	Water	03/21/12 00:00	03/27/12 10:00
480-17711-12	39625-12	Water	03/22/12 00:00	03/27/12 10:00

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes ☐ No ☐

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-4124 (1007)

Client WWA		Project Manager B. Premeo		Date 3/26/12	Chain of Custody Number 1911-5
Address 429 River Lane		Telephone Number (Area Code)/Fax Number 906-822-7889		Lab Number	Page _____ of _____

City Amasa	State MI	Zip Code 49903	Site Contact	Lab Contact	Analysis (Attach list if more space is needed)
Project Name and Location (State)			Carrier/Waybill Number		

Contract/Purchase Order/Quote No.

Contract Purchase Order No.		Matrix										Containers & Preservatives						Conditions of Receipt																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Sample I.D. No. and Description (Containers for each sample may be combined on one line)		Date	Time	Air	Aqueous	Sed	Soil		Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Fluor																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				</

Possible Hazard Identification	Sample Disposal	(A fee may be assessed if samples are retained longer than 1 month)
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown	<input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months	

Turn Around Time Required	QC Requirements (Specify)
<input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input type="checkbox"/> 21 Days <input checked="" type="checkbox"/> Other Normal	
1 Relinquished By Chaffin	1. Received By Alf
Date 3-26-12	Date 3/27/12
Time	Time 10w
2 Relinquished By	2. Received By
Date	Date
Time	Time
3 Relinquished By	3. Received By
Date	Date
Time	Time

Comments _____

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

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4/8/2012

13 12 11 10 9 8 7 6 5 4 3 2 1